

Title (en)

Sealed monoblock battery having a cooling device

Title (de)

Verschlossene monoblock Batterie mit Kühlungsvorrichtung

Title (fr)

Batterie monobloc étanche munie d'un dispositif de refroidissement

Publication

EP 0933830 B1 20040414 (FR)

Application

EP 98403297 A 19981224

Priority

FR 9800969 A 19980129

Abstract (en)

[origin: EP0933830A1] A sealed one-piece battery has side cooling compartments with fluid circulation grooves extending at an obtuse angle to the battery partition plane. A sealed one-piece battery, operating at ≥ 1 bar relative pressure, has a plastic housing with a cover and a partitioned container and is equipped with a cooling system comprising two plastic side pieces cooperating with the external surface of the two opposite container walls perpendicular to the partition, each side piece defining, with the associated wall, a compartment having chicane-forming grooves for fluid circulation and fluid inlet and outlet openings. The novelty is that the direction of each groove forms an angle of 60-90 degrees with respect to the partition plane.

IPC 1-7

H01M 10/50; H01M 2/02

IPC 8 full level

H01M 10/50 (2006.01)

CPC (source: EP US)

F28F 3/12 (2013.01 - EP US); **F28F 21/065** (2013.01 - EP US); **H01M 10/613** (2015.04 - EP US); **H01M 10/651** (2015.04 - EP US); **H01M 10/6556** (2015.04 - EP US); **H01M 10/6567** (2015.04 - EP US); **H01M 10/625** (2015.04 - EP US); **H01M 10/652** (2015.04 - EP US); **Y02E 60/10** (2013.01 - EP)

Cited by

CN109546197A; FR3116328A1; CN108886188A; CN113851770A; EP2228851A1; FR2908557A1; EP2293376A4; CN108072289A; US10367241B2; US8197958B2; US9945098B2; US8216713B2; WO2008059123A1; WO2015007360A1; WO2022106247A1; DE102014212181A1; WO2015197310A2; DE102014212181B4

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0933830 A1 19990804; EP 0933830 B1 20040414; DE 69823156 D1 20040519; DE 69823156 T2 20041125; FR 2774215 A1 19990730; FR 2774215 B1 20000225; JP H11273752 A 19991008; US 5985483 A 19991116

DOCDB simple family (application)

EP 98403297 A 19981224; DE 69823156 T 19981224; FR 9800969 A 19980129; JP 2021299 A 19990128; US 1844298 A 19980204